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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/CEMENT/2020 Date: 05.08.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	Cement
Sample Received on	:	03.08.2019
Period of Testing	:	03.08.2019 to 05.08.2019
Report Issue Date	:	05.08.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore

Sunitha N L AE W10

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/SAND-Gradation/2020 05.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
*Sample ID	:	Sand for masonry mortars
Test Method As Per	:	IS : 2116 : 1980 (RA-2017)
Sample Received on	:	03.08.2019
Date of Testing	:	05.08.2019
Report Issue Date	:	05.08.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 2116 - 1980 (RA-2017)
4.75	100.00	100
2.36	99.10	90-100
1.18	94.60	70-100
600 Micron	81.60	40-100
300 Micron	30.00	5-70
150 Micron	8.80	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/AGG/GR/2020

05.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS : 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	03.08.2019
Date of Testing	:	05.08.2019
Report Issue Date	:	05.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	39.40	30-70	0-20
10	14.76	10-35	0-5
4.75	2.26	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/GMN/W.No.10/Steel/2020

07.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	07.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.1	O.K	O.K

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Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/GMN/W.No.10/Steel/2020

07.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	07.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.3	O.K	O.K

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/Cube/2020

06.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of the work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.09.2019
Report Issue Date	:	06.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.08.2019	06.09.2019	8.128	495.6	22.03
2	09.08.2019	06.09.2019	8.326	516.2	22.94
3	09.08.2019	06.09.2019	8.402	524.9	23.33

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.09.2019
Report Issue Date	:	06.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.08.2019	06.09.2019	8.113	516.4	22.95
2	09.08.2019	06.09.2019	8.229	524.9	23.33
3	09.08.2019	06.09.2019	8.302	532.9	23.68

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* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.09.2019
Report Issue Date	:	06.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.08.2019	06.09.2019	8.090	504.5	22.42
2	09.08.2019	06.09.2019	8.116	512.6	22.78
3	09.08.2019	06.09.2019	8.229	524.9	23.33

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* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.09.2019
Report Issue Date	:	09.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2019	09.09.2019	8.123	480.5	21.36
2	12.08.2019	09.09.2019	8.226	495.8	22.04
3	12.08.2019	09.09.2019	8.325	504.9	22.44

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.09.2019
Report Issue Date	:	09.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2019	09.09.2019	8.090	478.5	21.27
2	12.08.2019	09.09.2019	8.115	516.6	22.96
3	12.08.2019	09.09.2019	8.258	526.6	23.40

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/Cube/2020

09.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.09.2019
Report Issue Date	:	09.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2019	09.09.2019	8.225	504.5	22.42
2	12.08.2019	09.09.2019	8.325	514.6	22.87
3	12.08.2019	09.09.2019	8.405	526.9	23.42

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Vidyaranyapura Sub Division
Bangalore - 97

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/Cube/2020

11.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of the work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2019
Report Issue Date	:	11.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2019	11.09.2019	8.328	499.8	22.21
2	14.08.2019	11.09.2019	8.459	515.6	22.92
3	14.08.2019	11.09.2019	8.168	532.9	23.68

*Information is furnished by the Customer/Representative.

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Pooja K.L.

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2019
Report Issue Date	:	11.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2019	11.09.2019	8.109	504.6	22.43
2	14.08.2019	11.09.2019	8.290	515.9	22.93
3	14.08.2019	11.09.2019	8.325	538.9	23.95

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Sample Received on	:	11.09.2019
Report Issue Date	:	11.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2019	11.09.2019	8.200	480.6	21.36
2	14.08.2019	11.09.2019	8.280	511.8	22.75
3	14.08.2019	11.09.2019	8.328	524.9	23.33

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Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019
Report Issue Date	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.105	525.9	23.37
2	16.08.2019	13.09.2019	8.229	534.2	23.74
3	16.08.2019	13.09.2019	8.336	504.9	22.44

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Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019
Report Issue Date	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.118	498.6	22.16
2	16.08.2019	13.09.2019	8.229	478.6	21.27
3	16.08.2019	13.09.2019	8.339	513.6	22.83

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Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019
Report Issue Date	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.325	487.9	21.68
2	16.08.2019	13.09.2019	8.405	514.9	22.88
3	16.08.2019	13.09.2019	8.426	529.8	23.55

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Name of the work	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	Ramp Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.09.2019
Report Issue Date	:	21.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.08.2019	21.09.2019	8.225	376.5	16.73
2	24.08.2019	21.09.2019	8.378	385.4	17.13
3	24.08.2019	21.09.2019	8.229	378.9	16.84

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/Cube/2020

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.09.2019
Report Issue Date	:	21.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.08.2019	21.09.2019	8.115	378.4	16.82
2	24.08.2019	21.09.2019	8.229	395.8	17.59
3	24.08.2019	21.09.2019	8.305	402.8	17.90

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028n/SAND-Gradatio1

16.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
*** Name of Work**	:	Improvements to roads and drains at Pille Gowda Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
***Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
***Sample ID**	:	Sand For Pointing
Test Method As Per	:	IS : 1542 : 1992 (RA-2019)
Sample Received on	:	14.08.2019
Date of Testing	:	16.08.2019
Report Issue Date	:	16.08.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.60	95-100
2.36	97.40	95-100
1.18	94.20	90-100
600 Micron	87.40	80-100
300 Micron	44.90	20-65
150 Micron	11.10	0-15

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Remarks : This tested sample satisfies requirement.

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